



DATA SHEET

BAW56, BAV70, BAV99, BAL99

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 100 Volts POWER 250mWatts

FEATURES

- · Fast switching speed.
- Surface mount package Ideally Suited for Automatic insertion
- Electrically Identical to Standard JEDEC
- · High Conductance

• Both normal and Pb free product are available :

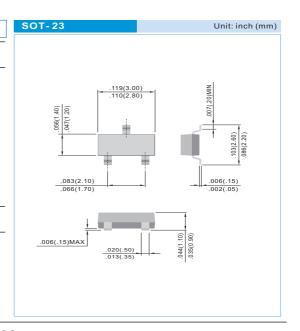
Normal : 80~95% Sn, 5~20% Pb Pb free: 98.5% Sn above

MECHANICAL DATA

Case: SOT-23, Plastic

Terminals: Solderable per MIL-STD-202, Method 208

Approx. Weight: 0.008 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

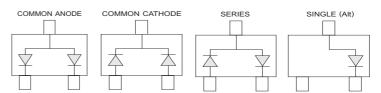
Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	BAW 56	BAV70	BAV99	BAL99	UNITS
Marking Code		JC	JA	JG	JF	
Reverse Voltage	V R	75				V
Peak Reverse Voltage	VRM	100				V
Rectified Current (Average), Half Wave Rectification with Resistive Load and f>=50 Hz	ъ	150				m A
Peak Forward Surge Current,1.0us	Īгsм	2.0				A
Power Dissipation Derate Above 25°C	Ртот	250				m W
Maximum Forward Voltage	VF	0.715 @ F=0.001A 0.855 @ F=0.01A 1.0 @ F=0.05A 1.25 @ F=0.15A				V
Maximum DC Reverse Currentat 25V 75V	Ik	0 .0 3 2 .5				μΑ
Maximum Junction Capacitance (Notes 1)	СJ	1 .5				рF
Maximum Reverse Recovery Time (Notes 2)	Trr	4 .0				ns
Maximum ThermalResistance	R θЈА	625				°C /W
Junction Temperature Range	Тл	-55 TO +150				°C
C ircuit F igure		Common Anode	Common Cathode	Series	S ingle (A lt)	

NOTE:

1. CJ at $V_R=0$, f=1MHZ

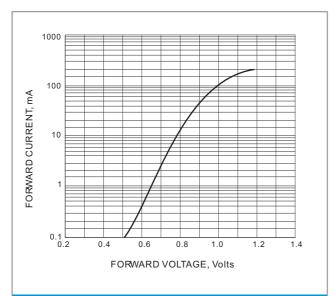
2.From I_F=10mA to I_R=1mA, V_R=6Volts, R_L=100 Ω



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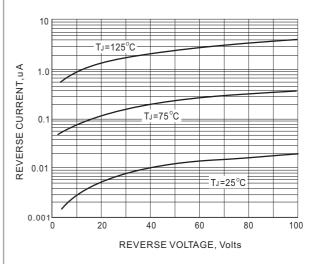
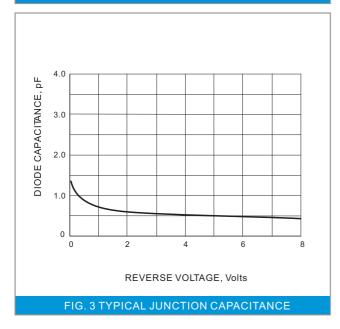


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

FIG. 2-TYPICAL REVERSE CHARACTERISTICS



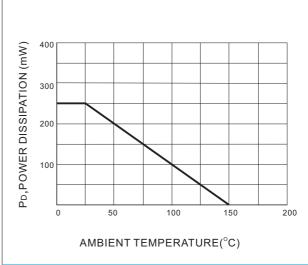


FIG. 4 POWER DERATING CURVE

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